Project Title	Funding	Institution	
Connections between autism, serotonin and hedgehog signaling	\$0	Medical Research Council-National Institute for Medical Research	
Multigenic basis for autism linked to 22q13 chromosomal region	\$249,999	Hunter College of the City University of New York (CUNY) jointly with Research Foundation of CUNY	
Notor cortex plasticity in MeCP2 duplication syndrome	\$62,500	Baylor College of Medicine	
ranslational dysregulation in autism pathogenesis and therapy	\$125,000	Massachusetts General Hospital	
ole of GABA interneurons in a genetic model of autism	\$187,455	Yale University	
ouse Model of Dup15q Syndrome	\$670	Texas AgriLife Research	
apping the Neurobehavioral Phenotype in Phelan McDermid Syndrome	\$35,000	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	
ABA and Gamma-band Activity: Biomarker for ASD?	\$0	University of Pennsylvania	
he role of Shank3 in neocortex versus striatum and the pathophysiology of utism	\$25,000	Duke University	
nderstanding the Genetic Architecture of Rett Syndrome - an Autism pectrum Disorder	\$30,000	Cold Spring Harbor Laboratory	
eural Correlates of the Y Chromosome in Autism: XYY Syndrome as a senetic Model	\$290,609	Children's Hospital of Philadelphia	
leural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model	\$153,479	Nemours Children's Health System, Jacksonville	
anguage Development in Fragile X Syndrome	\$516,736	University of California, Davis	
euroactive Steroid GABAA Receptor Positive Modulators for Fragile X yndrome	\$62,748	SAGE THERAPEUTICS, INC.	
enetic Modifiers of Seizure Disorders in Fragile X Syndrome	\$261,539	Emory University	
Longitudinal MRI Study of Brain Development in Fragile X Syndrome	\$548,356	University of North Carolina	
redicting Phenotypic Trajectories in Prader-Willi Syndrome	\$302,050	Vanderbilt University	
mergence and Stability of Autism in Fragile X Syndrome	\$358,000	UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA	
nalysis of MEF2 in Cortical Connectivity and Autism-Associated Behaviors	\$53,282	MCLEAN HOSPITAL	
henotypic Characterization of MECP2 Mice	\$66,830	Children's Hospital of Philadelphia	
tole of MEF2 and neural activity in cortical synaptic weakening and limination	\$387,160	UT SOUTHWESTERN MEDICAL CENTER	
leurobiological Mechanism of 15q11-13 Duplication Autism Spectrum isorder	\$376,818	BETH ISRAEL DEACONESS MEDICAL CENTER	
TOR modulation of myelination	\$179,659	Vanderbilt University	
DNF and the Restoration of Synaptic Plasticity in Fragile X and Autism	\$453,289	University of California, Irvine	
lechanisms of mGluR5 function and dysfunction in mouse autism models	\$405,319	UT SOUTHWESTERN MEDICAL CENTER	
HE ROLE OF MECP2 IN RETT SYNDROME	\$353,130	University of California, Davis	
evealing protein synthesis defects in Fragile X Syndrome with new nemical tools	\$347,427	Stanford University	
eCP2 Modulation of BDNF Signaling: Shared Mechanisms of Rett and utism	\$371,057	UNIVERSITY OF ALABAMA AT BIRMINGHAM	
hagocytosis is misregulated in a Drosophila model of Fragile X syndrome	\$27,349	Columbia University	

Project Title	Funding	Institution	
Studying Rett and Fragile X syndrome in human ES cells using TALEN technology	\$30,000	Whitehead Institute for Biomedical Research	
A Novel Glial Specific Isoform of Cdkl5: Implications for the Pathology of Autism in Rett Syndrome	\$0	University of Nebraska	
Alteration of Dendrite and Spine Number and Morphology in Human Prefrontal Cortex of Autism	\$0	University of California, Davis	
Modeling Pitt-Hopkins Syndrome, an Autism Spectrum Disorder, in Transgenic Mice Harboring a Pathogenic Dominant Negative Mutation in TCF4	\$30,000	University of North Carolina	
Modeling Microglial Involvement in Autism Spectrum Disorders, with Human Neuro-glial Co-cultures	\$0	Whitehead Institute for Biomedical Research	
Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	\$0	Massachusetts Institute of Technology	
Neuropathology of the Shank3 mouse model for autism	\$1,100	University of Louisville	
Physiological studies in a human stem cell model of 15q duplication syndrome	\$0	University of Connecticut	
Functional and anatomical recovery of synaptic deficits in a mouse model of Angelman Syndrome	\$0	University of North Carolina	
Pragmatic language and social-emotional processing in autism, fragile X, and the FMR1 premutation	\$24,898	NORTHWESTERN UNIVERSITY	
Testing the ribosomal protein S6 as treatment target and biomarker in autism spectrum disorders	\$59,995	Cincinnati Children's Hospital Medical Center	
TMLHE deficiency and a carnitine hypothesis for autism	\$0	Baylor College of Medicine	
Bi-directional regulation of Ube3a stability by cyclic AMP-dependent kinase	\$0	University of North Carolina	
A cerebellar mutant for investigating mechanisms of autism in Tuberous Sclerosis	\$149,937	Boston Children's Hospital	
TrkB agonist therapy for sensorimotor dysfunction in Rett syndrome	\$147,806	Case Western Reserve University	
Autism phenotypes in Tuberous Sclerosis: Risk factors, features & architecture	\$149,044	King's College London	
Probing the Molecular Mechanisms Underlying Autism: Examination of Dysregulated Protein Synthesis	\$51,400	National Institutes of Health	
Dissecting the 16p11.2 CNV endophenotype in induced pluripotent stem cells	\$51,400	University of California, San Francisco	
Role of astrocytic glutamate transporter GLT1 in Fragile X	\$0	Tufts University	
Mesocorticolimbic dopamine circuitry in mouse models of autism	\$174,944	Stanford University	
Neural and cognitive discoordination in autism-related mouse models	\$277,072	New York University	
Rapid screening for cortical circuit dysfunction in autism-related mouse models	\$59,835	University of California, Berkeley	
Cerebellar plasticity and learning in a mouse model of austim	\$60,000	University of Chicago	
Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism	\$124,496	New York University	

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The Role of Glia in Fragile X Syndrome	\$60,000	Johns Hopkins University	
Dysregulation of Mdm2-mediated p53 ubiquitination in autism mouse models	\$60,000	University of Illinois at Chicago	
Characterizing 22q11.2 abnormalities	\$124,995	Children's Hospital of Philadelphia	
16p11.2 rearrangements: Genetic paradigms for neurodevelopmental disorders	\$100,000	University of Lausanne	
The role of UBE3A in autism: Is there a critical window for social development?	\$108,900	Erasmus University Medical Center	
Probing the neural basis of social behavior in mice	\$62,500	Massachusetts Institute of Technology	
Linking circuit dynamics and behavior in a rat model of autism	\$196,290	University of California, San Francisco	
Restoring cortical plasticity in a Rett mouse model	\$0	Stanford University	
MAGEL2, a candidate gene for autism and Prader-Willi syndrome	\$52,224	University of Alberta	
Cortical inhibition and disrupted vocal perception in MeCP2 +/- mice	\$81,970	Cold Spring Harbor Laboratory	
Neural mechanisms underlying autism behaviors in SCN1A mutant mice	\$200,000	University of Washington	
Linking genetic mosaicism, neural circuit abnormalities and behavior	\$62,500	Brown University	
Dendritic 'translatome' in fragile X syndrome and autism	\$60,000	University of Michigan	
Genetic contribution to language-related preclinical biomarkers of autism	\$0	University of Pennsylvania	
Mechanisms of synapse elimination by autism-linked genes	\$150,000	University of Texas Southwestern Medical Center	
Mechanisms Underlying the Cerebellar Contribution to Autism in Mouse Models of Tu	\$190,458	CHILDREN'S HOSPITAL CORPORATION	
MRI Biomarkers of Patients with Tuberous Sclerosis Complex and Autism	\$716,468	CHILDREN'S HOSPITAL CORPORATION	
Imaging of protein synthesis and ubiquitination in fragile x syndrome	\$234,000	Emory University	
Identification of TSC cellular phenotypes using patient-derived iPSCs	\$229,322	Rutgers University	
Investigating the role of Tsc1 in neocortical circuit assembly	\$47,114	Stanford University	
Neurotrophic Factor Regulation of Gene Expression	\$615,631	HARVARD MEDICAL SCHOOL	
THE ROLE OF MECP2 IN RETT SYNDROME	\$100,000	University of California, Davis	
Mechanisms and Rescue of Neural Circuit Dysfunction in Mecp2 Mutant Mice	\$92,578	BAYLOR COLLEGE OF MEDICINE	
Role of UBE3A in the Central Nervous System	\$321,269	University of North Carolina	
Tet-mediated Epigenetic Modulation in Autism	\$684,145	Emory University	
Targeting the PI3K Enhancer PIKE to Reverse FXS-associated Phenotypes	\$206,000	Emory University	
Presynaptic Fragile X Proteins	\$249,000	DREXEL UNIVERSITY	
Genetic and Developmental Analyses of Fragile X Mental Retardation Protein	\$394,554	Vanderbilt University	
A Novel Essential Gene for Human Cognitive Function	\$35,030	HARVARD MEDICAL SCHOOL	
Allelic Choice in Rett Syndrome	\$390,481	WINIFRED MASTERSON BURKE MED RES INST	

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Activity-dependent phosphorylation of MeCP2	\$177,055	HARVARD MEDICAL SCHOOL	
Translation, Synchrony, and Cognition	\$376,430	New York University	
MicroRNAs in Synaptic Plasticity and Behaviors Relevant to Autism	\$131,220	Massachusetts General Hospital	
Novel candidate mechanisms of fragile X syndrome	\$248,873	UNIVERSITY OF MICHIGAN	
A Family-Genetic Study of Autism and Fragile X Syndrome	\$632,570	NORTHWESTERN UNIVERSITY	
Cortactin and Spine Dysfunction in Fragile X	\$33,319	University of California, Irvine	
Dysregulation of Protein Synthesis in Fragile X Syndrome	\$1,060,826	National Institutes of Health	
New Models For Astrocyte Function in Genetic Mouse Models of Autism Spectrum Diso	\$396,250	CLEVELAND CLINIC LERNER COM-CWRU	
Translational Regulation of Adult Neural Stem Cells	\$372,621	University of Wisconsin	
Dysregulation of mTOR Signaling in Fragile X Syndrome	\$487,251	ALBERT EINSTEIN COLLEGE OF MEDICINE	
FMRP regulates the pruning of cell-to-cell connections in the neocortex	\$79,500	UT SOUTHWESTERN MEDICAL CENTER	
Longitudinal MRI Study of Brain Development in Fragile X	\$773,954	Stanford University	
Development and afferent regulation of auditory neurons	\$386,250	University of Washington	
Mechanisms of Motor Skill Learning in the Fragile X Mouse Model	\$299,510	University of Nebraska	
Genotype-Phenotype Relationships in Fragile X Families	\$564,704	University of California, Davis	
Genotype-Phenotype Relationships in Fragile X Families	\$55,440	University of California, Davis	
Profiles and Predictors of Pragmatic Language Impairments in the FMR1 Premutation	\$53,132	UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA	
Aberrant synaptic form and function due to TSC-mTOR-related mutation in autism spectrum disorders	\$0	Columbia University	
The role of UBE3A in autism	\$125,001	Harvard Medical School	
Genetically defined stem cell models of Rett and fragile X syndrome	\$175,000	Whitehead Institute for Biomedical Research	
Neurobiology of RAI1, the causal gene for Smith-Magenis syndrome	\$0	Stanford University	
Probing synaptic receptor composition in mouse models of autism	\$249,994	Boston Children's Hospital	
Fragile X syndrome target analysis and its contribution to autism	\$249,272	Vanderbilt University	